

What is claimed is;

1. A monochromatic image display system comprising a flat panel-like display device, each picture element of the display device emitting light in a same color, characterized in that said same color falls within the region surrounded by points (0.174, 0), (0.28, 0.32) and (α , 0.32) as represented by co-ordinates (x, y) on a CIE chromaticity diagram, wherein α represents the x-coordinate of the intersection of a spectrum locus and a straight line $y=0.32$.

2. A monochromatic image display system as defined in Claim 1 in which the display device is provided with at least one element selected from the group consisting of a substrate, a face plate, a diffuser panel, a color filter, a diffuser film, a collimator film, a prism film and a polarizing film which are colored to a predetermined color.

3. A monochromatic image display system as defined in Claim 2, wherein said at least one element comprises polyethylene terephthalate colored with anthraquinone dye having said predetermined color.

4. A monochromatic image display system as defined in Claim 1, wherein each picture element of the display device comprises a series of spatially adjacent cells, each cell configured to express tones in three-or-more levels of said same color, and the plurality of picture elements expressing a monochromatic image,

said monochromatic image display system further comprising at least one of:

an area modulation means which controls an output luminance of each picture element by selectively turning on and off input signals to the respective cells, for the picture element, independently of each other,

a time modulation means which drives the respective cells for each picture element in a time division system, and

an intensity modulation means which controls input signal levels to the respective cells for each picture element independently of each other,

wherein the cells are driven so that a maximum luminance of each picture element is in a range of 100cd/m^2 to 10000cd/m^2 .

5. A monochromatic image display system as defined in Claim 4 in which the maximum luminance of each picture element is in a range of 500cd/m^2 to 5000cd/m^2 .

6. A monochromatic flat panel image display system as defined in Claim 1 in which said flat panel-like display device is a liquid crystal panel.

7. A flat panel image display system as defined in Claim 1 in which said flat panel-like display device is an organic EL panel.

8. A monochromatic image display system as defined in Claim 1, wherein each picture element of the display device comprises a series of spatially adjacent cells, each cell configured to express tones in three-or-more levels of said same color, and the plurality of picture elements expressing a monochromatic image.

9. A monochromatic image display system as defined in Claim 8, wherein an average of the output luminance of all the cells within each respective picture element correspond to an output luminance of the respective picture element.

10. A monochromatic image display system as defined in Claim 9, further comprising a cell signal generating means for generating, based on a monochromatic image signal indicating an output luminance of each picture element of said monochromatic image, a cell signal for each spatially adjacent cell of a respective picture element of the display device, wherein each respective picture element of the display device corresponds to a picture element of said monochromatic image.

11. A monochromatic image display system as defined in Claim 10, further comprising a tone number conversion means for carrying out a tone number conversion processing on an input original monochromatic image signal, thereby generating said monochromatic image signal indicating the output luminance of each picture element of said monochromatic image,

wherein a number of tones represented by said monochromatic image signal is no greater than a number of tones which can be expressed by each respective picture element of the display device, and

wherein a number of tones represented by said input original monochromatic image signal is greater than said number of tones represented by said monochromatic image signal.

12. A monochromatic image display system as defined in Claim 1, wherein said same color is blue.